

**FY 2011 Federal Energy and Water Management Awards
Department of the Interior Recipients
August 29, 2011**

Every year, the Department of Energy's Federal Energy Management Program (FEMP) presents the Federal Energy and Water Management Awards. These awards recognize individuals and teams that have made significant contributions towards Federal energy and water efficiency, sustainability, and renewable energy. Award recipients will be honored at a noon luncheon on Thursday, October 13, 2011, at the Omni Shoreham Hotel, 2500 Calvert Street NW, Washington, DC.

This year the Department of the Interior has four award recipients:

- **U.S. Fish and Wildlife Service** – Assabet River National Wildlife Refuge in Sudbury, Massachusetts will receive a Project Award for their Visitor Center. Using passive solar architecture, a cool roof, daylighting, low-e glazed windows, energy-efficient fluorescent and LED lighting, occupancy sensors, a 12.5-ton geothermal ground source heat pump, and a 6.3-kilowatt grid-tied solar photovoltaic (PV) array, the Visitor Center's energy performance is 30% better than an average building and saves 13.1 metric tons of greenhouse gases (GHG) annually. Indoor features include low-VOC carpets, paints, and adhesives, recycled materials such as 100% recycled paper countertops, a solar-powered trash compactor, and low flow water fixtures and waterless urinals. Outside, the use of wildlife-friendly native plants, a "no mow" lawn, stormwater containment with drainage swales, and porous pavement maximize water conservation. The total energy cost saved in 2010 was \$2,662.



Assabet National Wildlife Refuge Visitor Center

- **U.S. Fish and Wildlife Service** – Benton Lake National Wildlife Refuge in Great Falls, Montana will receive a Project Award for their Hybrid Solar PV and Wind Energy System.

Funded by the American Recovery and Reinvestment Act, the Refuge installed 15.4 kilowatt of grid-tied solar PV panels and a 10 kilowatt grid-tied wind turbine in 2009 to power its headquarters building. The building is super insulated, completely weatherized, has operable low-e windows, T-8 fluorescent lights with electronic ballasts, occupancy sensors, and LED exit lights, and employs passive solar energy strategies. In FY 2010, these integrated renewable energy systems accomplished a 93% decrease in electricity consumption and a 33% reduction in energy intensity from the field station's FY 2003 baseline, with a cost savings of approximately \$4,000 per year, an energy savings of 121 million BTUs, and 25 metric tons of GHGs avoided.



Benton Lake National Wildlife Refuge Solar PV and Wind Energy System

- **U.S. Fish and Wildlife Service** – San Francisco Bay National Wildlife Refuge Complex in Fremont, California will receive a Project Award for their Headquarters Office Renovation. Energy conservation features include passive solar technologies such as double-glazed light-bronze tinted low-e windows and doors with innovative thermal-break frames, expansive spray foam wall and ceiling insulation, LED and T-8 fluorescent lighting with electronic ballasts, occupancy sensors, daylighting, ENERGY STAR® appliances, and Water Sense low-water-use plumbing fixtures that save 5,000 gallons per year. Renewable energy features include a solar-thermal collector with an interior heat reservoir that provides 100% of the domestic hot water. After renovation, the building consumes 52% (104 megawatt-hour) less energy and indirectly offsets approximately 72 metric tons of GHGs annually.



San Francisco Bay National Wildlife Refuge Complex Headquarters Office

- **U.S. Fish and Wildlife Service** – Mr. David Guthrie, Energy Coordinator for the U.S. Fish and Wildlife Service, will receive an Exceptional Service Award. For more than ten years, Mr. Guthrie has turned the U.S. Fish and Wildlife Service's Energy Management Program into a Federal leader, saving millions of BTUs of energy and millions of gallons of water. Mr. Guthrie developed and maintained a unique Energy Database, drafted the Service's Carbon Mitigation Plan, and helped obtain millions of dollars in Green Energy and Recovery Act funding for energy efficiency, renewable energy, and water conservation projects. Through these and other accomplishments, Mr. Guthrie fulfills a critical role in enabling the Service to meet its goal of carbon neutrality in 2020.